

E. B. TAYLOR.
Hat-Pouncing Machine.

No. 220,889.

Patented Oct. 21, 1879.

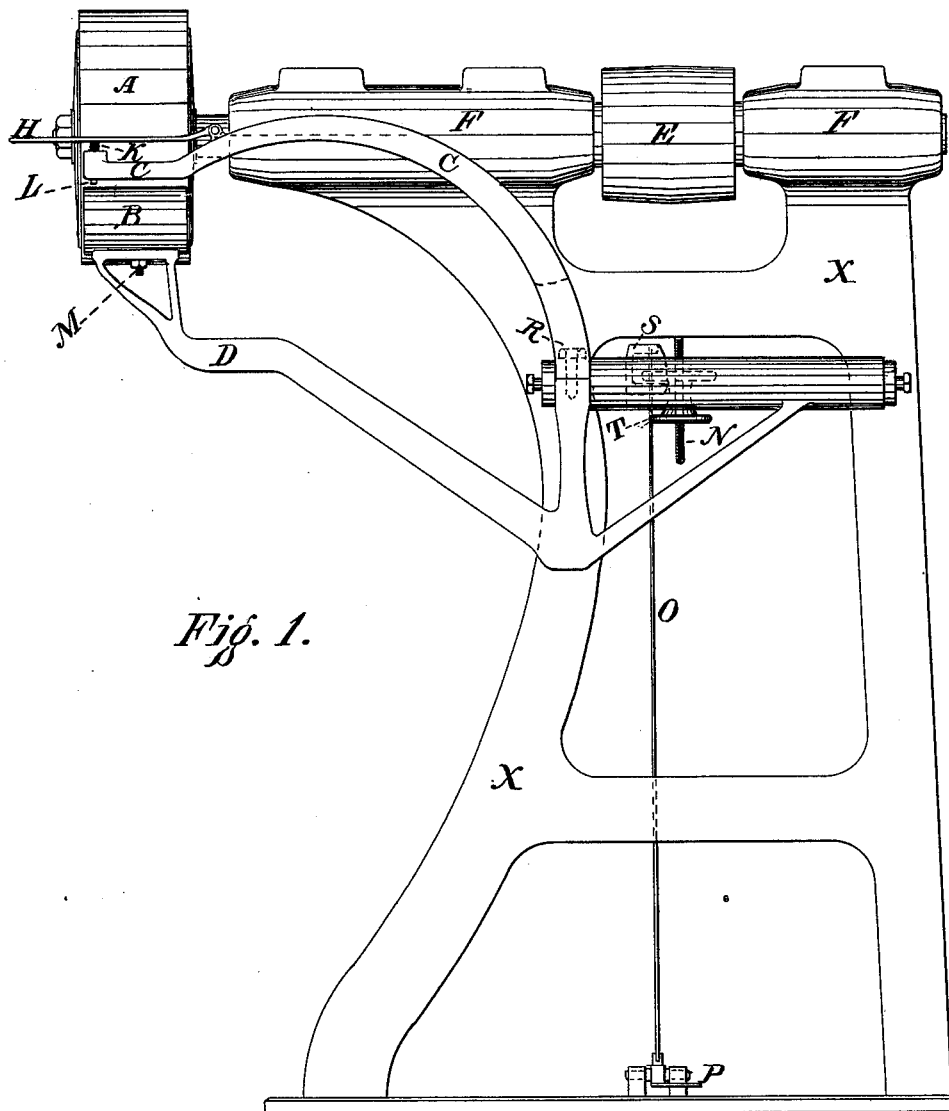


Fig. 1.

Witnesses.

H. E. Davis

Gerrard Irvine Whitehead

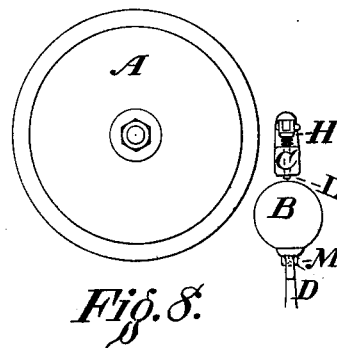
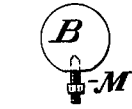
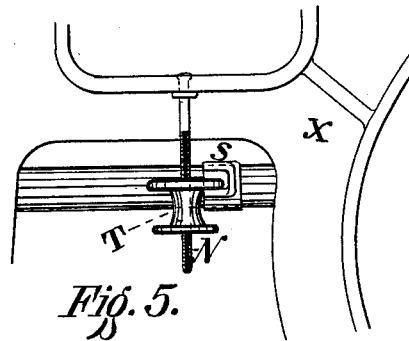
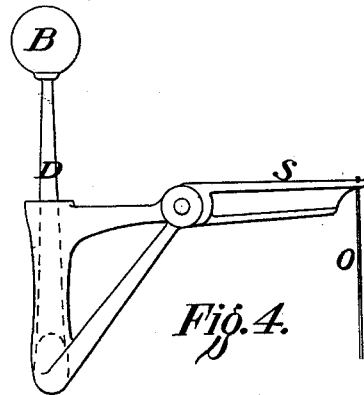
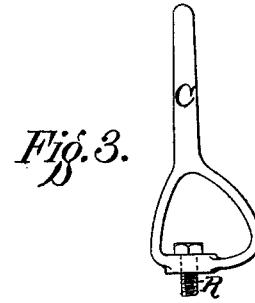
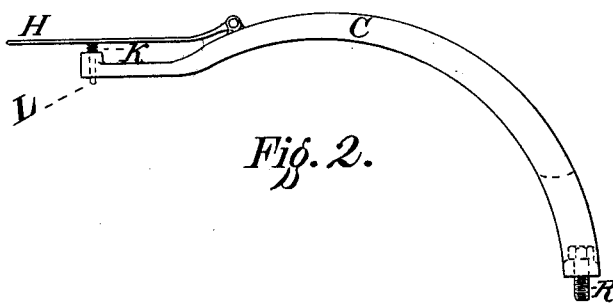
Inventor.

Edmund B. Taylor

E. B. TAYLOR.
Hat-Pouncing Machine.

No. 220,889.

Patented Oct. 21, 1879.



Witnesses.

H. Davis
Gerrard Irvine Whitehead

Inventor.

Edmund B Taylor

UNITED STATES PATENT OFFICE.

EDMUND B. TAYLOR, OF PORTLAND, MAINE.

IMPROVEMENT IN HAT-POUNCING MACHINES.

Specification forming part of Letters Patent No. **220,889**, dated October 31, 1879; application filed May 21, 1879.

To all whom it may concern:

Be it known that I, EDMUND B. TAYLOR, of Portland, in the county of Cumberland and State of Maine, have invented an Improvement in Hat-Pouncing Machines, of which the following is a specification.

The object of my invention is to dispense with feed-rolls and hat-blocks in machines for pouncing hats, to make the cutting or pouncing cylinder self-feeding, to enable the operator to control the speed and direction in which the hats to be pounced pass over the cutting or pouncing surface by the hand with the assistance of a guard and presser-pin, and to cause the material to be pounced to move in the same direction as the surface of the self-feeding cutter in contact with it, thereby avoiding the injurious strain to which it is subjected in ordinary hat-pouncing machines with feed-rolls or their equivalent.

With my machine not only can hats be pounced without any stretching or straining of the material to be pounced, but hats of different styles can be pounced, or different parts of the same hat can be pounced more or less, as may be desired, without any change in the adjustment of the machine.

The accompanying drawings show my machine in detail.

Figure 1 is a front elevation of the machine. Fig. 2 is a front view of the guard, lever, and presser pin. Fig. 3 is a side view of the lower end of the guard. Fig. 4 is an end view of the bracket and the supporting-block. Fig. 5 shows the button that regulates the movement of the bracket. Fig. 6 is a front view of the supporting-block. Fig. 7 is an end view of the supporting-block. Fig. 8 is an end view of the cutting-cylinder, supporting-block, and the guard-lever and presser-pin.

My machine consists of a table or supporting-frame, X, which carries the bearings F for the shaft, upon which is fixed the driving-pulley E and the self-feeding pouncing-cylinder A, which can be revolved at any desirable speed. This self-feeding cylinder is covered with the pouncing or cutting material.

A block, B, supports the hat or material to be pounced and presses it against the self-feeding pouncing-cylinder A. This block is adjustable upon its middle point by means of

a bolt tapped into it, which passes through the bracket D and is fastened by a nut, M. It is supported by the bracket D, which turns on a pivot and is operated by a treadle and lever, P, and connecting-rod O.

The lateral movement of the supporting-block B is regulated and adjusted by the button T, which turns in a groove in the arm S of the bracket D, and which can be raised or lowered by turning it upon the screw N, to which it is tapped.

A guard, C, is placed directly over the supporting-block to protect the hand of the operator from contact with the self-feeding pouncing-cylinder, and is adjustable upon the bracket D by means of the nut R, which works in a stirrup in the guard, as shown in Fig. 3, and fastens it in the position deemed desirable. A presser-pin, L, works through a hole in the end of the guard, and can be pressed down upon the hat as it passes over the supporting-block with more or less force, allowing it to be drawn between the presser-pin and supporting-block fast or slow, as may be desired, or holding it firmly, allowing it to revolve around the presser-pin as a center, thus bringing every part of the hat under the operation of the pouncing-cylinder. When not depressed, the presser-pin is kept up out of contact of the hat by the spring K, or any suitable device, and is depressed by means of the lever H.

The mode of operating my machine is as follows: The hat to be pounced is placed over the supporting-block and pressed against the self-feeding pouncing-cylinder by means of the treadle operating the swinging bracket. The self-feeding pouncing-cylinder, revolving at great speed, draws the hat through the space between the supporting-block and the self-feeding pouncing-cylinder. The hand of the operator, assisted, when necessary, by the presser-pin, retards the hat in its passage and controls its direction, by which means the pouncing-surface can be caused to move over the material to be pounced at any rate of speed, or in any direction that may be desired.

The presser-pin L, Figs. 1, 2, and 8, is a peculiar and novel feature of my machine, its operation being as follows: The hat to be pounced can be caused to revolve about it as a center

by means of the pressure exerted upon it, so that every part of the hat, except that immediately under the presser-pin, would in its rotation come in contact with the pouncing-cylinder, and by lessening the pressure the hat would be drawn under the presser-pin in any desired direction, and that part of it which had formed the center of rotation would then be pounced. This is only one of many ways in which the presser-pin could be used in pouncing hats.

What I claim, and desire to secure by Letters Patent, is—

1. The guard for supporting and protecting the hand of the operator and assisting to control the movement of the hat or material to be pounced, substantially as described.

2. The presser-pin for assisting in the con-

trol of the movement of the hat, substantially as described.

3. The combination of the presser-pin and the lever for actuating it, substantially as described.

4. The combination of the cutting or pouncing cylinder, the support for the hat or material to be pounced, and the guard and presser-pin, substantially as described.

5. The combination of the support for the hat and the self-feeding pouncing-cylinder, whereby the hat is drawn over the support B in the direction of the motion of the pouncing-cylinder.

EDMUND B. TAYLOR.

Witnesses:

GERRARD IRVINE WHITEHEAD,
H. E. DAVIS, Jr.